



Missouri Weekly Influenza Report 2007-2008 Season¹

Missouri is reporting “Widespread” to the CDC for Week 8².

To view influenza maps click [here](#). Each map will give county data by placing the cursor over the county.

Table 1. Reported Laboratory cases by sub-type for the Week ending February 23, 2008 (Week 8)

Serogroups	A (non-typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 8	1428			10	350	477	2265

2,251 cases by rapid non-culture diagnostic test, 10 culture confirmed type A (H3) and 4 culture confirmed type B have been reported for week 8.

**Table 2. Influenza Season-to-Date and 5-season Median by Influenza Type
Through Week Ending February 23, 2008 (Week 8)**

Influenza Type	2007-08 Season	5-Season Median	Percent Change from 5-Season Median
Influenza A	10,947	4,950	121.2%
Influenza B	1,721	497	246.5%
Influenza Unknown Or Untyped	3,819	2,030	88.1%
Total	16,487	7,165	130.1%

**Table 3. Influenza Season-to-Date and
5-season Median by Age Group
Through Week Ending February 23, 2008 (Week 8)**

Age Group	2007-08 Count	5-Season Median	Percent Change from 5-Season Median
00-<02	1,629	915	78.0%
02-04	1,900	867	119.1%
05-14	3,284	2,087	57.4%
15-24	2,671	794	236.4%
25-49	4,298	1,233	248.6%
50-64	1,301	491	165.0%
65+	1,404	778	80.6%
Total	16,487	7,165	130.1%

**Table 4. Influenza Season-to-Date and
5-season Median by Region
Through Week Ending February 23, 2008 (Week 8)**

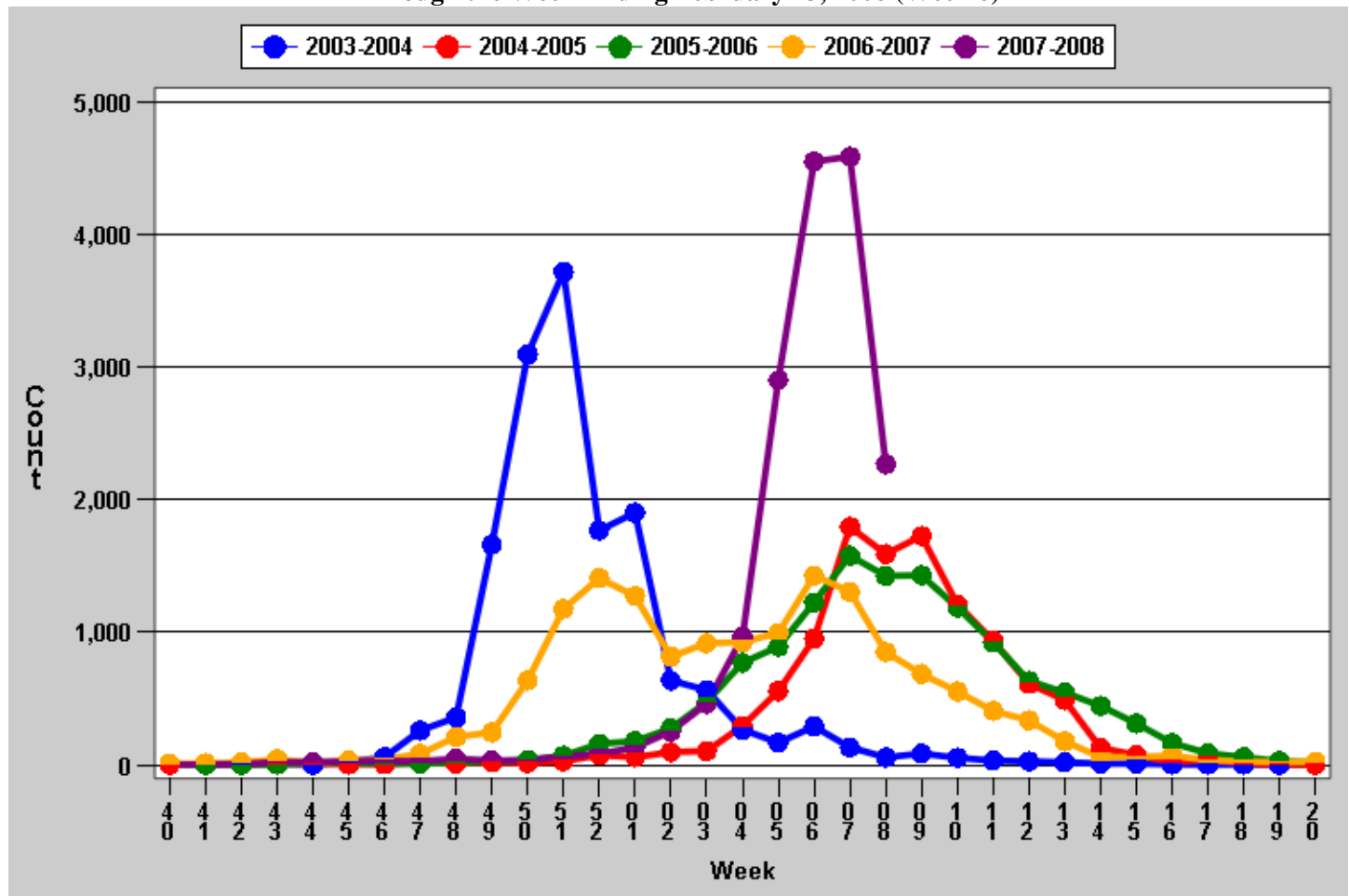
Region	2007-08 Count	5-Season Median	Percent Change from 5-Season Median
CE	2,355	1,113	111.6%
EA	7,508	1,703	340.9%
NW	3,109	2,888	7.7%
SE	1,344	441	204.8%
SW	2,170	1,583	37.1%
Total	16,487	7,165	130.1%

**Table 5. Deaths involving Pneumonia and Influenza (P&I)
Reported During the Week Ending February 16, 2008 (Week 7)***

Week 7	Season-to-Date	Week 7 Last Season	5 Year Weekly Median
78	1399	69	132

* Beginning in Week 35 of 2003, the number of P&I deaths became based on a new system of retrieval that now includes all contributing causes of death from death certificates.

**Graph 1. Influenza 2007-08 Season-To-Date as compared to the previous 4 influenza seasons
Through the Week Ending February 23, 2008 (Week 8)**



**Table 6. Respiratory Specimens Submitted to SPHL for Viral Testing
Through the Week Ending February 23, 2008 (Week 8)***

	Positive Influenza	Total Number Specimens Submitted
Week 8	14	15
Season-to-Date	47	134

*Number positives also represent past weeks specimens submitted.

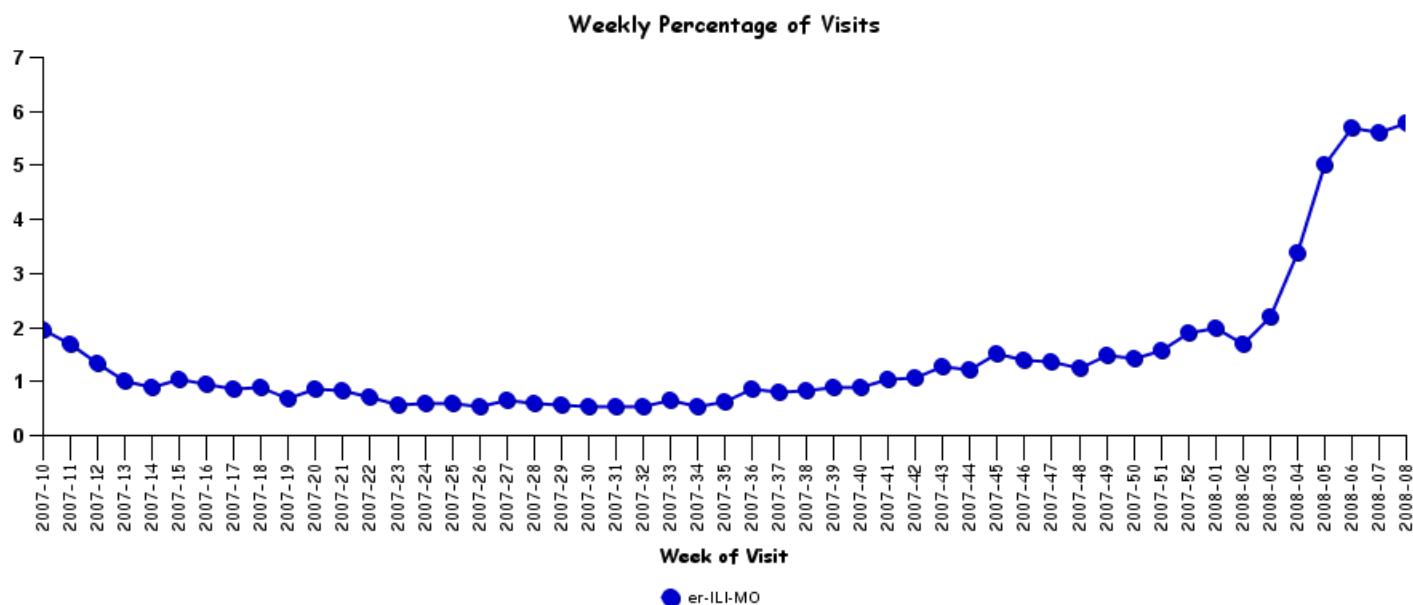
**Table 7. U.S. Influenza Sentinel Physicians Surveillance Network (USISPSN)*
Influenza-like Illness (ILI) for the Week Ending February 16, 2008 (Week 7)**

Age 0-4	Age 5-24	Age 25-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI**
39	125	54	13	231	3609	6.40

*To learn about USISPSN, view the following website: <http://www.cdc.gov/flu/weekly/fluactivity.htm>

**This is above the regional baseline percent of 1.5%

**Graph 2. Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE)*
Weekly percent of ER visits with the chief complaint of Influenza-like Illness, from participating hospitals.
Through the Week Ending February 23, 2008 (Week 8)**



*To learn more about ESSENCE, view the following website: <http://www.dhss.mo.gov/ESSENCE/>

Antigenic Characterization of Missouri Influenza Isolates submitted to CDC by the State Public Health Laboratory: CDC antigenically characterizes a sample of positive Missouri influenza isolates, submitted through the Missouri Department of Health and Senior Services (DHSS), State Public Health Laboratory (SPHL). DHSS has submitted fourteen influenza isolates this season to CDC for antigenic characterization.

Results Received from CDC: Influenza B viruses currently circulating can be divided into two antigenically and genetically distinct lineages represented by **B/Yamagata/16/88** and **B/Victoria/2/87** viruses.

CDC has antigenically characterized one isolate so far this season from Missouri: as B/FLORIDA/04/2006-LIKE virus.

Both LAIV and TIV contain strains of influenza viruses that are antigenically equivalent to the annually recommended strains: one influenza A (H3N2) virus, one influenza A (H1N1) virus, and one influenza B virus. Each year, one or more virus strains might be changed on the basis of global surveillance for influenza viruses and the emergence and spread of new strains. Only the H1N1 strain was changed for the recommended vaccine for the 2007–08 influenza season, compared with the 2006–07 season. Viruses for both types of currently licensed vaccines are grown in eggs. Both vaccines are administered annually to provide optimal protection against influenza virus infection. Both TIV and LAIV are widely available in the United States. Although both types of vaccines are expected to be effective, the vaccines differ in several aspects.

Clusters/Outbreaks of Influenza-like Illness: Three school closings have been reported for week 8 of current season; no school closings were reported last season. Three outbreaks have been reported for week 8 of the current season; no outbreaks were reported last season.

Data Sources: Laboratory-confirmed cases are reported to DHSS through the passive communicable disease surveillance system. Suspected influenza clusters and outbreaks are reported through the active surveillance system. Pneumonia and influenza deaths are reported through the DHSS Bureau of Vital Records. Influenza-like illness data by age category and total number of patient visits by week are reported voluntarily by participants in the U.S. Influenza Sentinel Physicians Surveillance Network.

Find Us on the Web

This report may also be found on the DHSS Internet at: www.dhss.state.mo.us/Influenza/index.html.

National influenza surveillance information is available from the Centers for Disease Control and Prevention at: www.cdc.gov/ncidod/diseases/flu/weekly.htm.

Contact Us

The Missouri Department of Health and Senior Services after hours number for reporting disease cases and emergencies is **1-800-392-0272**.

¹ *All data in this report are provisional and may change as reports are updated.*

² *Influenza activity codes are reported to CDC each Monday.*